TECHNYL® A 206 NATURAL Z

Polyamide 66

Solvay Engineering Plastics

Message:

TECHNYL® A 206 NATURAL Z is an unreinforced polyamide PA66, medium viscosity, for injection moulding. This grade offers two main advantages: its good resilience and its excellent filling quality of moulds.

General Information	
UL YellowCard	E44716-235550
Features	Good liquidity Good demoulding performance Excellent appearance
Uses	Industrial application Furniture Application in Automobile Field Consumer goods application field
Agency Ratings	EC 1907/2006 (REACH) UL QMFZ2
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Injection molding
Resin ID (ISO 1043)	PA66

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.2	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	3100	1700	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	86.0	60.0	MPa	ISO 527-2/1A
Fracture, 23°C	56.0	50.0	MPa	ISO 527-2/1A
Tensile Strain (Yield, 23°C)	5.0	18	%	ISO 527-2
Flexural Modulus (23°C)	2900	1400	MPa	ISO 178
Flexural Stress (23°C)	120	60.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.5	14	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	5.0	15	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
1.6 mm	V-2	--		UL 94
3.2 mm	V-2	--		UL 94
Injection	**Dry**	**Unit**		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	265 - 275		°C	
Middle Temperature	270 - 280		°C	
Front Temperature	280 - 285		°C	
Mold Temperature	60 - 80		°C	

Injection instructions

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4hInjection Advice:
For unfilled polyamide, Solvay recommends the use of high alloy steel with a weak chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C.
The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

Recommended distributors for this material

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